# **Cypress**™

## **Cypress Tech Talk**

March 10, 2020



















# **Agenda**

- Software Updates
  - Cypress 5.3.0 Patch Release
  - Cypress v6 Releases
  - Known Issues Dashboard
- Cypress Versions
- Open Discussion
- Contact Information

## Cypress 5.3.0 Release

- A 5.3.0 patch release for Cypress is scheduled for March 12, 2020
- Cypress Features
  - Unit of measure checks for EH eCQMs
  - Increased contrast for Expected Results
  - C1 Record Sample tests will remain Incomplete until first QRDA upload
  - CVU+ will evaluate QRDA Cat I files with unknown demographic information
  - All users can download reports in Demo mode
  - Installation script for simplified upgrade

#### Cypress Bugs Addressed

- QRDA Cat I R5.1 schematron updated (CYPRESS-1959)
- CQL Calculation Engine updated to fix CVU+ calculations of Open Boundaries (CYPRESS-1924)
- Submission errors were not being displayed for C1/C3 tests (CYPRESS-1968)

### Unit of measure checks for EH eCQMs

- EH Submission systems perform eCQM calculations using the unit of measures stated in the eCQM specification
- EH Submission system do not perform unit conversion prior to eCQM calculation
- However, Cypress does perform unit conversion prior to eCQM calculation
- Cypress 5.3.0 will return warnings when a reported unit of measure does not match what is stated in the eCQM specification

QRDA (0) Reporting (0) Submission (0) CMS Warnings (1) Other Warnings (0)

Warning message Go To in XML

Unit 'mg/dLs' for QDM::LaboratoryTestPerformed (LDL-c) does not match expected units (mg/dL). Units must match measure-defined units.

# **Software Updates Increased contrast for Expected Results**

#### Before

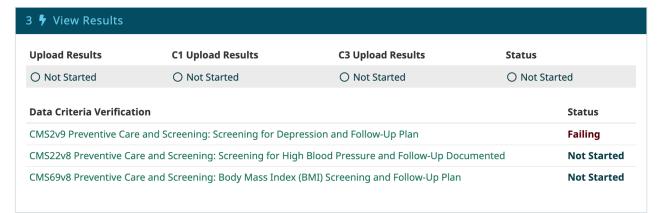
Patient Name	Template Name	DOB	Gender	IPOP	DENOM	NUMER	DENEX	DENEXCEP
Constance Johnston	Z32 Heart Adult	February 13, 1950	Female			0	0	0
Rick Gregory	Z12 GP Adult	February 3, 1972	Male					0
Laurie Fleming	Z17 GP Adult	March 20, 1969	Female					0

#### After

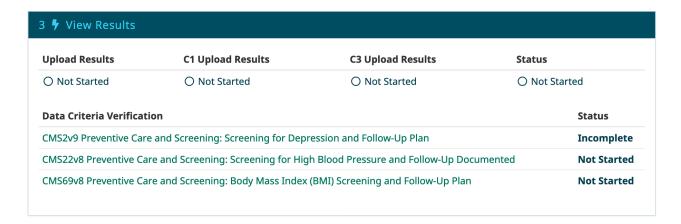
Patient Name	Template Name	DOB	Gender	IPOP	DENOM	NUMER	DENEX	DENEXCEP
Lewis Boyd	Z12 GP Adult	February 3, 1972	Male					
Erik Bates	Z13 N GP Adult	February 13, 1972	Male			$\bigcirc$		
Toni Stevenson	B (Independent Risk Factors 4) Cancer Female	September 1, 1965	Female			0	0	0
Carl Warren	A N BH Adult	January 1, 1978	Male					0

# C1 Record Sample tests will remain Incomplete until first QRDA upload

#### Before



#### After



# CVU+ will evaluate QRDA Cat I files with unknown demographic information

 Previous Cypress/CVU versions would return an "internal error" for QRDA files with unknown demographic information

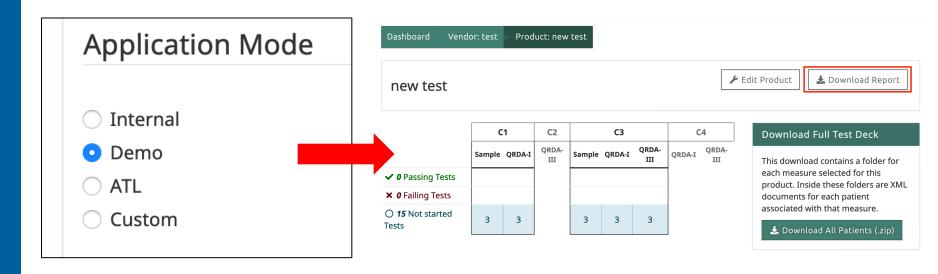
```
Most Recent - March 9, 2020 1:26pm (internal error) ♣ Refresh View

CM Execution: An internal error occurred

Errors and Warnings
```

# All users can download reports in Demo mode

- Previously, only users with Admin or ATL privileges could download a report on a Cypress instance in Demo mode
- Now, any user (with access to the specified Vendor page) can download a report on a Cypress instance in Demo mode
- Downloading a report will still be restricted to ATL and Admin users for Cypress instances used for certification (ATL mode)



## Installation script for simplified upgrade

#### Before

Connect to your machine running cypress and run the following commands:

```
sudo apt-get update
sudo apt-get install cypress
sudo apt-get install cqm-execution-service
sudo systemctl restart cypress
sudo systemctl restart cqm-execution-service
```

#### After

Connect to your machine running cypress and run the following command:

curl https://raw.githubusercontent.com/projectcypress/cypress/master/contrib/upgrade\_

# QRDA Cat I R5.1 schematron updated (CYPRESS-1959)

- Cypress 5.2 was running an outdated schematron for QRDA Cat I R5.1.
- As a result, Cypress would return an error for the following conformance statement.

This code SHALL contain at least one [1..\*] translation, which SHOULD be selected from ValueSet Problem Type urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 2014-09-02 (CONF:1198-32848).

jump to error

This conformance statement has now been removed and will not be returned as an error message.

# CQL Calculation Engine updated to fix CVU+ calculations of Open Boundaries (CYPRESS-1924)

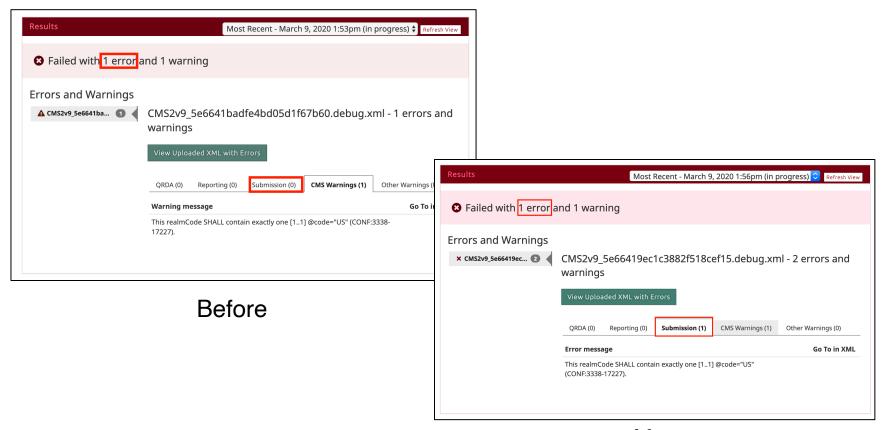
 A calculation bug in CVU+ impacts the calculation of logic like the following

MI.prevalencePeriod ends 3 years or less before day of start of Encounter.relevantPeriod

- The CVU+ calculations were not accounting for the "day of" precision and allowed the "MI" to occur on the same day as the "Encounter"
- This impacts CVU+ calculations for the following eCQMs
  - CMS56v8, CMS90v9, CMS125v8, CMS133v8, CMS136v9,
     CMS137v8, CMS145v8, CMS154v8, CMS161v8

# Submission errors were not being displayed for C1/C3 tests (CYPRESS-1968)

When C2 was not selected, Cypress would not show Submission errors in the error table.



After

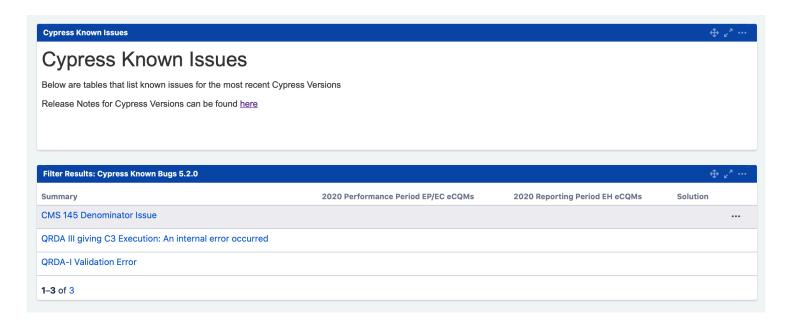
## **Upcoming Cypress v6 Releases**

- Cypress 6 Alpha release anticipated mid-May
  - Initial support for QRDA category 1 R5.2
  - Initial support for 2021 reporting/performance period eCQMs
- Final Cypress 6.0.0 release anticipated late July
  - Full support for R5.2 and 2021 measures

#### Recent Issue

## Cypress Known Issues Dashboard

- https://oncprojectracking.healthit.gov/support/secure/Dashboard.jspa ?selectPageId=18000
- The Dashboard collects all labeled known issues in one place, sorted by Cypress version
- Easily navigate to the dashboard from the Cypress summary page



# **Cypress Versions**

Version	Dates	Measures Supported
V4.0.4	October 3, 2019	Latest version supporting eCQMs for the 2019 Reporting/Performance Period and CQL. Fixes QRDA and other 4.0.3 bugs.
V5.1.0	November 7, 2019	Support for QRDA Category I R5.1 errata
V5.2.0	December 19, 2019	Latest version supporting eCQMs for the 2020 Reporting/Performance Period and CQL. Contains feature improvements and fixes for bugs found in Cypress v5.1.0
V5.3.0	March 12, 2020	Unit checking updates and interval boundary calculation updates

Bundle Version	Dates	Features
2018.1.0	October 11, 2018	Cypress v4 only CQL-based measures released in 2018 for the 2019 reporting year eCQM Value Sets as of 9/17/2018.
2019.1.0	November 7, 2019	Cypress v5 only Precalculated results Updates to Z6 VTE, Z13 N VTE, B GP Peds and 1 BH Infant
2019.1.1	December 19, 2019	Cypress v5 only CQL-based measures released in 2019 for the 2020 reporting year. Removed retired measures as announced on November 19, 2019.

## **OPEN DISCUSSION**

# **Next Cypress Tech Talk**

- Tuesday, March 24, 2020 at 1pm ET
- To join online, visit: <a href="https://global.gotomeeting.com/join/529898157">https://global.gotomeeting.com/join/529898157</a>
- To join via phone, dial: 1-646-749-3122
- Meeting Number: 529 898 157
- Meeting link, as well as a calendar event file, available at:
  - https://www.healthit.gov/cypress/techtalks.html

## **Notes**

- Completed Webinars will be posted on the Cypress website on the Tech Talks tab
  - https://www.healthit.gov/cypress/techtalks.html
- Send questions and feedback to the Cypress Talk List at
  - project-cypress-talk@googlegroups.com
- Report bugs and issues to the Cypress JIRA at
  - https://oncprojectracking.healthit.gov/support/browse/CYPRESS